

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB2004/052900

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H02M3/158

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 617 015 A (GODER ET AL) 1 April 1997 (1997-04-01) column 6, line 3 - line 33; figures 1,4a column 7, line 24 - line 47; figure 5a	1-8
A	US 2003/086279 A1 (BOURDILLON LAURENCE) 8 May 2003 (2003-05-08) abstract; figures 3,4	1-8
A	US 6 437 917 B1 (OOSHIMA TETSUYA ET AL) 20 August 2002 (2002-08-20) cited in the application the whole document	1-8
A	US 5 751 139 A (JORDAN ET AL) 12 May 1998 (1998-05-12) column 4, line 44 - column 5, line 38; figures 1,3	1-8

☐ Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

7 April 2005

Date of mailing of the international search report

19/04/2005

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information on patent family members

International Application No.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			JP 10186522 A	14-07-1998
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			US 6081380 A	27-06-2000
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			EP 1018065 A1	12-07-2000
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			WO 9840802 A1	17-09-1998